

Clean Set of Claims

1. A synchronizing data protocol for use in synchronizing timing between a master device and a codec, comprising:

a preamble insertion module in said master timing device adapted to insert a preamble code word, synchronizing timing between said master device and said codec, into selected frames in a data stream for transmission to said codec; and

a synchronizing preamble detection module in said codec device adapted to detect a presence of said preamble code word in said data stream;

wherein said preamble code word is inserted into said selected frames only when said master device and said codec are either initially synchronized or need to be re-synchronized.

10. A method of synchronizing a codec to a serial data bus, said method comprising:

providing an interrupt signal to said codec;

monitoring a data stream received by said codec for a presence of a synchronizing preamble code word; and

basing a timing in said codec on a timing of a detection of said synchronizing preamble code word by said codec;

wherein said synchronizing preamble code word is used only when said codec device and said serial data bus are either initially synchronized or need to be re-synchronized.

12. The method of synchronizing a codec to a master device over a serial data bus according to claim 10, wherein:

said synchronizing is performed occasionally with respect to a frame signal.

14. Apparatus for synchronizing a codec to a master device over a serial data bus, said method comprising:

means for providing an interrupt signal to said codec;

means for monitoring a data stream received by said codec for a presence of a synchronizing preamble code word; and

means for basing a timing in said codec on a timing of a detection of said synchronizing preamble code word by said codec;

wherein said synchronizing preamble code word is used only when said codec device and said serial data bus are initially synchronized or need to be re-synchronized.

16. The apparatus for synchronizing a codec to a master device over a serial data bus according to claim 14, wherein:

said synchronizing is performed occasionally with respect to a frame signal.

Version with Markings to Show Changes Made

1. (Amended) A synchronizing data protocol for use in synchronizing timing between a master device and a codec, comprising:

a preamble insertion module in said master timing device adapted to insert a preamble code word, synchronizing timing between said master device and said codec, into selected frames in a data stream for transmission to said codec; and

a synchronizing preamble detection module in said codec device adapted to detect a presence of said preamble code word in said data stream;

wherein said preamble code word is inserted into said selected frames only when said master device and said codec are either initially synchronized or need to be re-synchronized.

10. (Amended) A method of synchronizing a codec to a serial data bus, said method comprising:

providing an interrupt signal to said codec;

monitoring a data stream received by said codec for a presence of a synchronizing preamble code word; and

basing a timing in said codec on a timing of a detection of said synchronizing preamble code word by said codec;

wherein said synchronizing preamble code word is used only when said codec device and said serial data bus are either initially synchronized or need to be re-synchronized.

12. (Amended) The method of synchronizing a codec to a master device over a serial data bus according to claim 10, wherein:

said synchronizing[ation] is performed occasionally with respect to a frame signal.

14. (Amended) Apparatus for synchronizing a codec to a master device over a serial data bus, said method comprising:

means for providing an interrupt signal to said codec;

means for monitoring a data stream received by said codec for a presence of a synchronizing preamble code word; and

means for basing a timing in said codec on a timing of a detection of said synchronizing preamble code word by said codec;

wherein said synchronizing preamble code word is used only when said codec device and said serial data bus are initially synchronized or need to be re-synchronized.

16. (Amended) The apparatus for synchronizing a codec to a master device over a serial data bus according to claim 14, wherein:

said synchronizing[ation] is performed occasionally with respect to a frame signal.